TEJUS
CONSULTANTS

Test Report on Cement

Project	Construction and Improvements of Tiolets in Ward No . 08 , Kodigehalli ,
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s KRIDL
Sample ID	Cement
Date of Sample Tested	27-08-2021
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	40 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	358 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	5 mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	27.80%	25 % to 35

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4.The material used in the site satisfied the standard of MORTH's 5th revision and hence can be used in the work.

TEJUS CONSULTANTS

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	Construction and Improvements of Toilets in Ward No . 08 , Kodigehalli ,
Client	Brahat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s KRIM,
Grade of concrete:	M30 for Roof Beam
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	03-08-2021	31-08-2021	28days	8.131	22500	452	20.09	20.33
2	03-08-2021	31-08-2021	28days	8.110	22500	458	20.36	
3	03-08-2021	31-08-2021	28days	8.148	22500	462	20.53	

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	Construction and Improvements of Tiolets in Ward No . 08 , Kodigehalli ,
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s KRIDL
Grade of concrete:	M20 for Slab
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	07-08-2021	04-09-2021	28days	8.120	22500	462	20.53	20.65
2	07-08-2021	04-09-2021	28days	8.190	22500	468	20.80	
3	07-08-2021	04-09-2021	28days	8.130	22500	464	20.62	

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TEST REPORT	
Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Construction and Improvements of Tiolets in Ward No . 08 , Kodigehalli ,
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/s KRIDL

SPECIFIC GRAVITY AND WATER ABSORPTION FINE AGGREGATE
(IS-2386-PART-3)

Type of Material	Sand/M sand	Proposed Use	Drain
Location/Source	At Plant/site	Date of Sampling	03-09-2021
Period of Soaking	24 hours	Date of Testing	04-09-2021

Sl. No.	Test Property		TRIAL - 1	TRIAL - 2	TRIAL - 3	Average
A	Weight of sturated surface dry sample gm.		650	651	668	
B	Weight of oven - dry sample gm.		640	641	657	
C	Weight of Pycnometer Filled with water gm		1275	1275	1275	
D	Weight of Pycnometer + sample + water gm		1685	1685	1695	
E	Bulk specific gravity	B	2.667	2.660	2.649	2.659
		(C + A - D)				
G	Absorption (%)	(A - B) *100	1.563	1.560	1.674	1.599
		B				

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TEST REPORT					
Clients	Bruhat Bangalore Mahanagara Palike				
Project	Construction and Improvements of Tiolets in Ward No . 08 , Kodigehalli ,				
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore				
Contractor	M/s KRIDL				
Total Weight:	10000	gms			
SIEVE ANALYSIS					
Type of Material	**12.5 mm down size**		**Proposed Use**	Concrete	
Sample Location	Plant/site		**Date of Sampling**	04-09-2021	
			Date of Testing	04-09-2021	

IS Sieve Size (in mm)	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
20.0	0	0	0	100	100
12.5	540	540	5.40	94.60	90-100
10.0	2150	2690	26.90	73.10	40-85
4.75	6423	9113	91.13	8.87	0-10
Pan	887	10000			

Remarks :	✓ Satisfactory / Not Satisfactory

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TEST REPORT		
Clients	Bruhat Bangalore Mahanagara Palike	
Project	Construction and Improvements of Tiolets in Ward No . 08 , Kodigehalli ,	
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore	
Contractor	M/s KRIDL	
Total Weight:	10000	gms

SIEVE ANALYSIS

Type of Material	20 mm down size	**Proposed Use**	Concrete
Sample Location	At Plant	**Date of Sampling**	04-09-2021
		Date of Testing	04-09-2021

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
40.00 mm	0	0	0	100	100
20.00 mm	260	260	2.60	97.40	95 - 100
10.00 mm	4888	5148	51.48	48.52	25 - 55
4.75 mm	4130	9278	92.78	7.22	0 - 10
Pan	722	10000			

Remarks : ✓ Satisfactory / Not Satisfactory

Assistant Engineer
Bangalore Division
Yashwanthpur, Bangalore - 22

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TEST REPORT	
Clients	Bruhat Bangalore Mahanagara Palike
Project	Construction and Improvements of Tiolets in Ward No . 08 , Kodigehalli ,
Consultants	Tejus Consultants, Bangalore
Contractor	M/s KRIDL

SIEVE ANALYSIS

Total Weight:	**3000** gms				
Type of Material	**Fine aggregate (River Sand/M sand)**		**Proposed Use**	Drain	
Sample Location	At Plant/site		**Date of Sampling**	04-09-2021	
			Date of Testing	04-09-2021	
IS Sieve Size	**Weight Retained**	**Cum. Weight Retained**	**Cum. % Retained**	**Cum. % Passing**	**Spec. Limit (%) Passing (Zone-II)**
10.00 mm	0	0	0	100.00	**100**
4.75 mm	165	165	5.50	94.50	**90 - 100**
2.36 mm	295	460	15.33	84.67	**75 - 100**
1.18 mm	498	958	31.93	68.07	**55 - 90**
0.600 mm	540	1498	49.93	50.07	**35 -59**
0.300 mm	780	2278	75.93	24.07	**8-30**
0.150 mm	530	2808	93.60	6.40	**0 - 10**
Pan	192	3000			-
Remarks :			Satisfactory / Not Satisfactory		

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Test Report on Cement

Project	Construction and Improvements of Tiolets in Ward No . 08 , Kodigehalli ,
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s KRIDL
Sample ID	Cement
Date of Sample Tested	04-09-2021
Sample Supplied By	Agency

SLNo.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	45 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	415 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	5 mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	27.50%	

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	Construction and Improvements of Tiolets in Ward No . 08 , Kodigehalli ,
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s KRIDL
Grade of concrete:	M20
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	07-09-2021	05-09-2021	28days	8.138	22500	480	21.33	21.47
2	07-09-2021	05-09-2021	28days	8.125	22500	485	21.56	
3	07-09-2021	05-09-2021	28days	8.142	22500	484	21.51	

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	Construction and Improvements of Toilets in Ward No . 08 , Kodigehalli ,
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s KRIDL
Grade of concrete:	M20
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	08-09-2021	06-09-2021	28days	8.131	22500	480	21.33	21.76
2	08-09-2021	06-09-2021	28days	8.120	22500	495	22.00	
3	08-09-2021	06-09-2021	28days	8.140	22500	494	21.96	

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	Construction and Improvements of Toilets in Ward No . 08 , Kodigehalli .
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s KRIDL
Grade of concrete:	M20
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	07-09-2021	14-09-2021	7 days	8.126	22500	305	13.56	13.39
2	07-09-2021	14-09-2021	7 days	8.138	22500	300	13.33	
3	07-09-2021	14-09-2021	7 days	8.137	22500	299	13.29	

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES	
Project	Construction and Improvements of Tiolets in Ward No . 08 , Kodigehalli ,
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s KRIDL
Grade of concrete:	M20
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	08-09-2021	15-09-2021	7 days	8.122	22500	300	13.33	13.38
2	08-09-2021	15-09-2021	7 days	8.111	22500	302	13.42	
3	08-09-2021	15-09-2021	7 days	8.133	22500	301	13.38	

Asst. Executive Engineer
Project Division
Yelahanka Zone -02
BBMP, Bangalore

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PRECAST SLAB (CORE) TEST REPORT		
Client	:	Bruhat Bangalore Mahanagara Palike
Contractor	:	M/s KRIDL
Name of Work	:	Construction and Improvements of Tiolets in Ward No . 08 , Kodigehalli ,
No.of Sample Tested	:	3
Date of Testing	:	15-09-2021
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{30} , 150mm thick

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m³)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm²)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm²)	Equivalent Cube Compressive Strength (N/mm²)
1	50	140	0.66	2400.966	2.80	0.96	38.14	19.425	20.979	20.139	25.174
2	50	140	0.66	2400.966	2.80	0.96	38.28	19.496	21.056	20.213	25.267
3	50	140	0.66	2400.966	2.80	0.96	38.32	19.516	21.078	20.234	25.293

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